CLAIMS

What I claim is

1. A tubular shaped device comprising:
   a. a first outer wall;
   b. a second inner wall having a smaller diameter than the first outer wall;
   c. a fused juncture of the first and second wall that creates fluid impermeable seals and fluid communicating passages within an interstitial space between the first and second wall;
   d. a valve to convey fluid into the interstitial space.
2. The device of claim 1 further comprising a plurality of fused junctures of the first wall and the second wall in a selected orientation wherein at least one juncture is intersected by at least one passage capable of conveying fluid within the interstitial space.
3. The device of claim 2 wherein the selected orientation is substantially circumferential.
4. The device of claim 3 wherein the outer wall has a greater longitudinal length between each fused joint than the longitudinal length of the inner wall.
5. The device of claim 2 wherein the inner and outer walls are comprised of materials having differing elasticity.
6. The device of claim 2 wherein at least one wall is comprised of a material selected from a group consisting of polyethylene, polyurethane, TFE, PTFE, and ePTFE.
7. The device of claim 2 further comprising a fluid that can be communicated through the valve to fill the interstitial space.
8. The device of claim 7 further comprising a means for locating the tubular shaped device and inflating the device with the fluid within a blood vessel to form a lumen through which blood may be conveyed.
9. The device of claim 2 further comprising radially oriented web reinforcement within one or more fluid communicating chambers within the interstitial space of the inner and outer walls. .
10. The device of claim 2 for treatment of aneurysms.

11. The device of claim 2 for treatment of atherosclerosis.

12. The device of claim 4 wherein after the interstitial space is filled with fluid, the outer wall forms a substantially corrugated surface and the inner wall forms a substantially smooth wall.

13. The device of claim 7 wherein the fluid is a curable composition.

14. A method for repair of vessel walls comprising the steps of:

a. inserting a sealable two walled tubular shaped device within the vessel lumen utilizing a catheter having a fluid conveying means in communication to a value assessing an interstitial space between the walls of the device;

b. maneuvering the device to a selected location within the vessel;

c. inserting fluid through a controllable value within the device and into interstitial space between the two walls of the device;

d. continuing the addition of fluid to deploy the device in a radial direction sufficient that the one wall contacts the vessel wall and an annular space is created along the longitudinal length of the device;

e. withdrawing the catheter.